

Scaled data based on original data using  
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-  
State Lighting Products

Test Report Prepared for  
Cooper Lighting Solutions  
(formerly Eaton)

Brand: LUMARK

Report Number: P231790

Luminaire Tested: **AXCL12A**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P231790  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P29584)  
Test Lab: INNOVATION CENTER-P2  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: LUMARK  
Catalog Number: AXCL12A  
Description: AXCENT CUTOFF WALLPACK  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 16823 lumens  
Efficiency: N/A  
Efficacy: 136.3 lumens/watt  
Luminous Opening: Rectangular (W 0.75' x L: 0.29' x H: 0')  
IES Classification: Type III - Short - Full Cutoff  
BUG Rating: B3 - U0 - G2

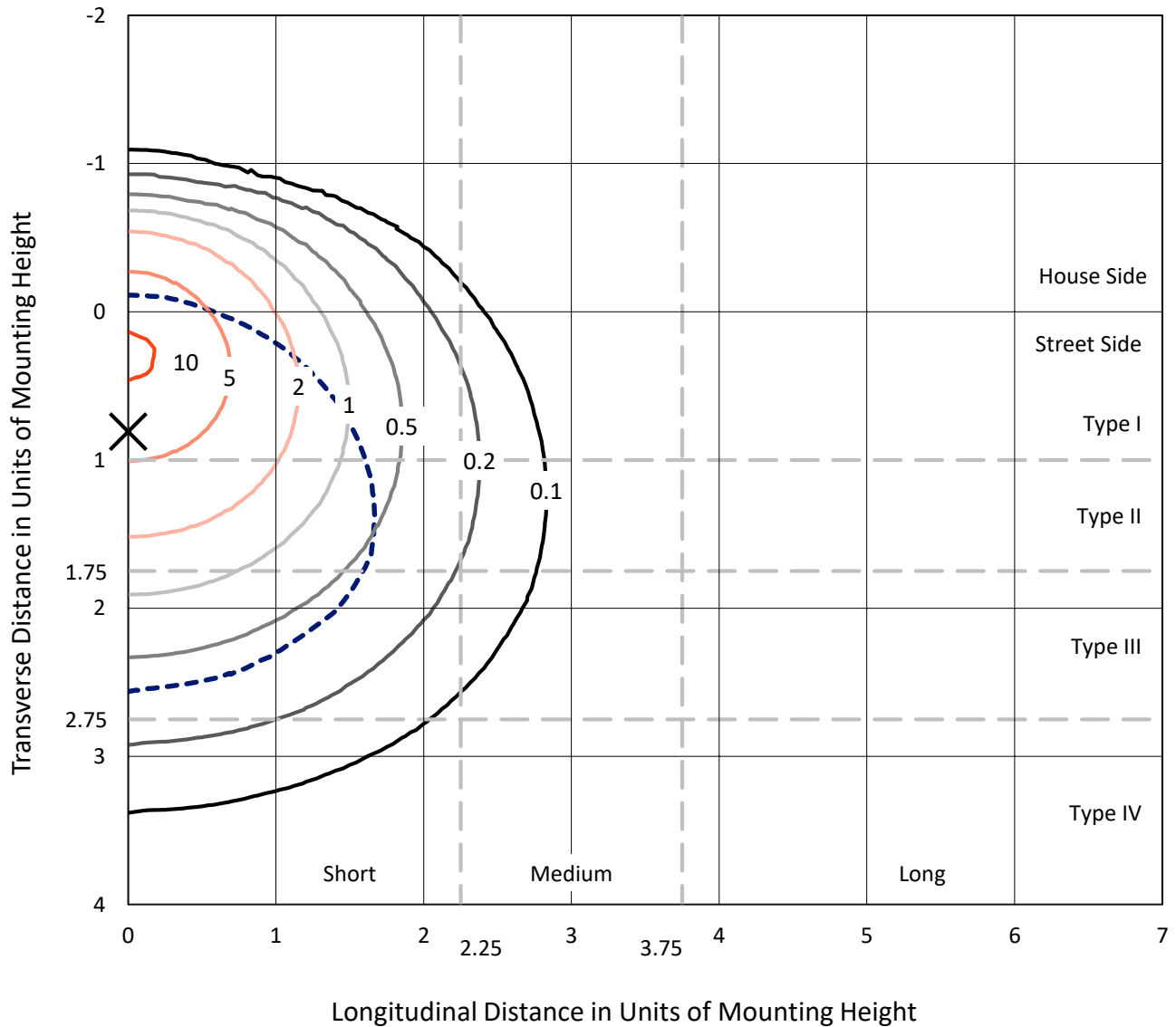
Input Watts (W): 123.4  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



REPORT NUMBER: P231790  
 CATALOG NUMBER: AXCL12A

### Iso-Footcandle Lines of Horizontal Illumination

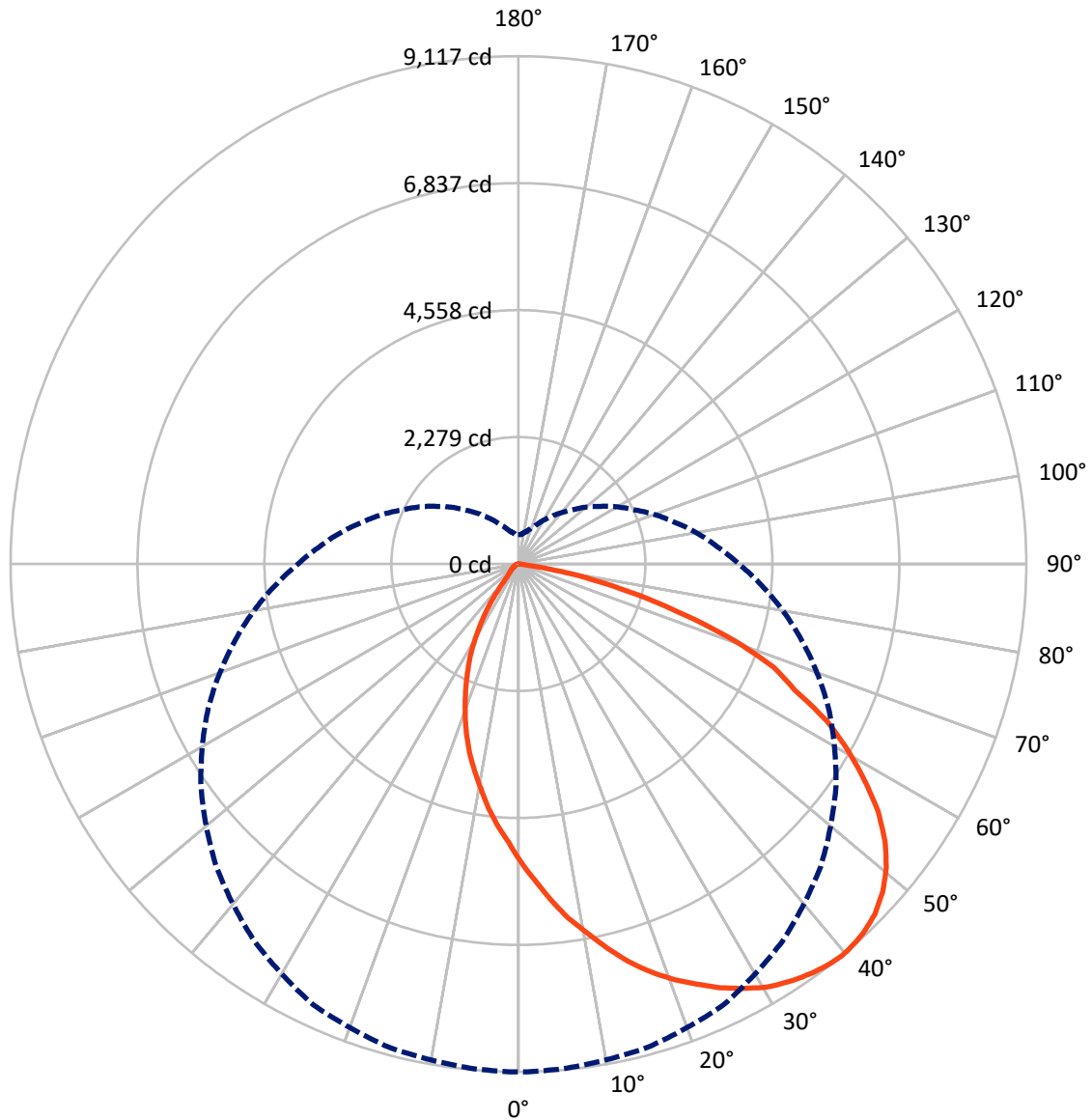
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10.6 fc  
 Type III - Short - Full Cutoff

REPORT NUMBER: P231790  
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### Luminous Intensity Polar Plot



— Vertical Plane Through 0-Deg Lateral      - - - Horizontal Cone Through 39-Deg Vertical

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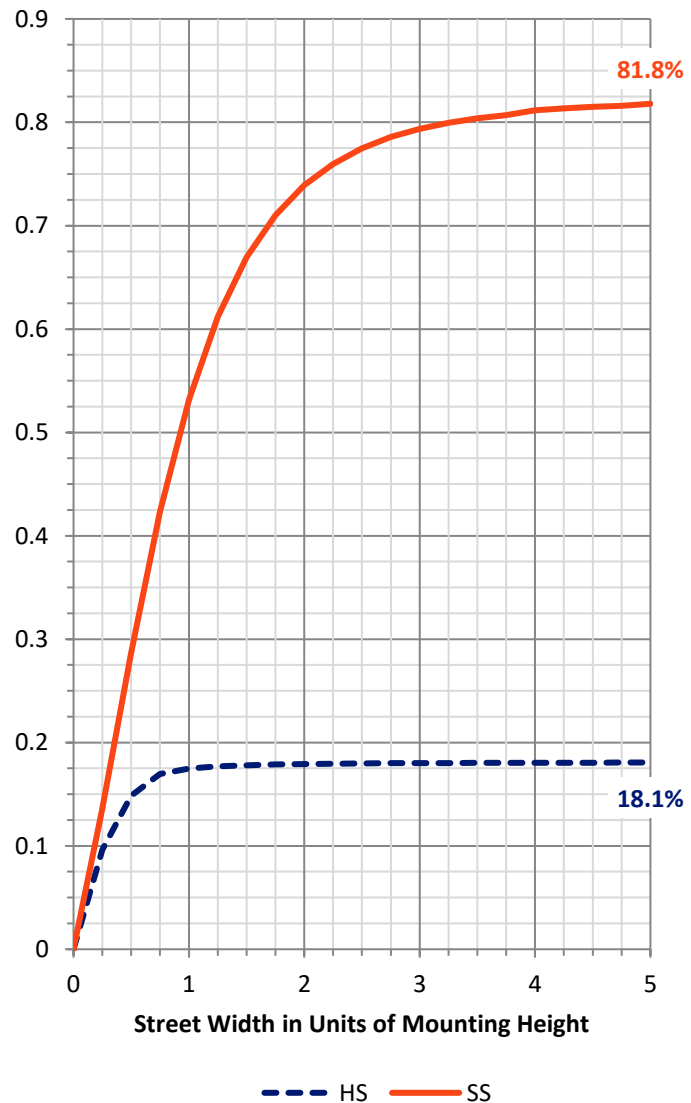
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	3068.5	0.0	3068.5
	% Fixture	18.2	0.0	18.2
<b>Street Side</b>	Lumens	13754.5	0.0	13754.5
	% Fixture	81.8	0.0	81.8
<b>Total</b>	Lumens	16823.0	0.0	16823.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	512.7	3.0
10°-20°	1512.0	9.0
20°-30°	2359.4	14.0
30°-40°	2934.2	17.4
40°-50°	3158.0	18.8
50°-60°	2967.2	17.6
60°-70°	2247.6	13.4
70°-80°	1040.5	6.2
80°-90°	91.3	0.5
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	16823.0	100.0
0°-180°	16823.0	100.0



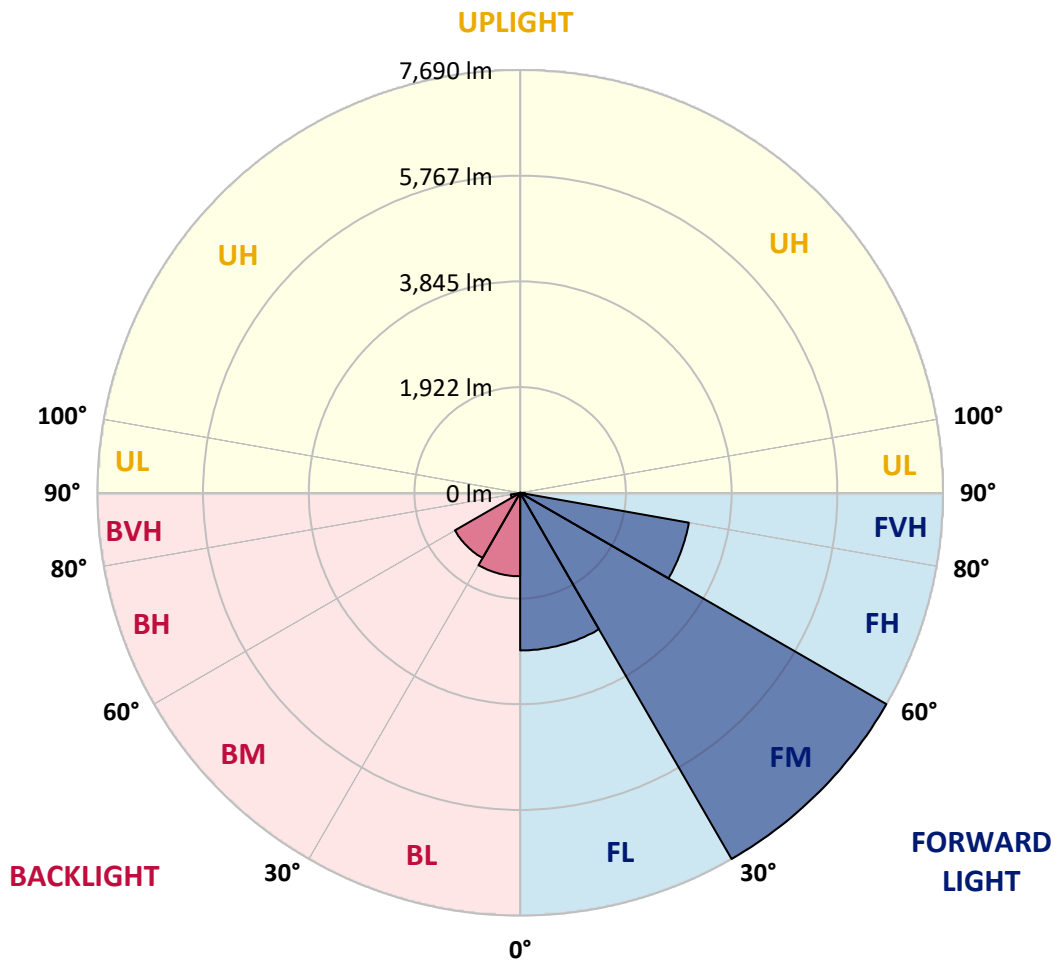
REPORT NUMBER: P231790  
 CATALOG NUMBER: AXCL12A

**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2866.3	17.0			
FM	(30°-60°)	7689.7	45.7			
FH	(60°-80°)	3114.4	18.5			G2/5000
FVH	(80°-90°)	84.1	0.5			G1/100
BL	(0°-30°)	1517.8	9.0	B3/2500		
BM	(30°-60°)	1369.7	8.1	B2/2500		
BH	(60°-80°)	173.7	1.0	B1/500		G1/500
BVH	(80°-90°)	7.2	0.0			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B3-U0-G2**

Type III Short





REPORT NUMBER: P231790  
 CATALOG NUMBER: AXCL12A

**CANDELA DISTRIBUTION (FULL):**

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	5352.8	5352.8	5352.8	5352.8	5352.8	5352.8	5352.8	5352.8	5352.8	5352.8	5352.8
2.5°	5685.8	5663.3	5675.1	5654.7	5652.6	5629.0	5586.2	5554.1	5513.4	5449.1	5381.7
5°	6054.1	6029.5	6040.2	6004.9	5983.5	5929.9	5843.2	5764.0	5671.9	5547.7	5424.5
7.5°	6415.0	6396.8	6400.0	6356.1	6311.1	6221.2	6093.8	5962.0	5812.1	5633.3	5447.0
10°	6727.6	6719.1	6731.9	6660.2	6597.0	6476.0	6312.2	6125.9	5918.1	5677.2	5437.4
12.5°	7074.6	7050.0	7061.7	6982.5	6899.0	6740.5	6532.8	6295.1	6027.4	5725.4	5422.4
15°	7407.6	7411.9	7405.4	7321.9	7215.9	7020.0	6767.3	6470.7	6140.9	5770.4	5404.2
17.5°	7698.8	7714.9	7710.6	7623.9	7479.3	7263.0	6971.8	6616.3	6221.2	5785.4	5350.6
20°	7960.1	7971.9	7964.4	7871.2	7706.3	7460.1	7130.3	6722.3	6261.9	5758.6	5266.0
22.5°	8190.3	8197.8	8191.4	8088.6	7904.4	7630.3	7264.1	6801.5	6281.1	5723.3	5180.4
25°	8428.0	8425.9	8420.5	8309.2	8107.9	7801.6	7392.6	6876.5	6307.9	5696.5	5100.1
27.5°	8627.2	8644.3	8630.4	8525.5	8306.0	7963.3	7506.1	6942.9	6329.3	5663.3	5010.1
30°	8813.5	8807.1	8796.4	8685.0	8453.7	8082.2	7580.0	6976.1	6320.8	5605.5	4903.1
32.5°	8934.5	8934.5	8909.9	8802.8	8564.0	8163.6	7622.8	6990.0	6290.8	5525.2	4770.3
35°	9033.0	9029.8	9006.2	8899.2	8654.0	8232.1	7658.1	6992.1	6251.2	5436.3	4628.9
37.5°	9100.5	9098.3	9075.8	8964.5	8709.6	8262.1	7674.2	6976.1	6192.3	5329.2	4475.8
39°	9116.5	9116.5	9095.1	8981.6	8727.8	8264.2	7674.2	6957.9	6145.2	5259.6	4378.4
40°	9114.4	9114.4	9093.0	8982.7	8726.8	8254.6	7663.5	6935.4	6108.7	5207.2	4310.9
42.5°	9069.4	9071.6	9050.1	8945.2	8691.4	8208.5	7603.5	6858.3	5997.4	5061.5	4130.0
45°	8968.8	8968.8	8949.5	8851.0	8590.8	8107.9	7499.7	6731.9	5855.0	4887.0	3934.0
47.5°	8797.4	8801.7	8780.3	8689.3	8425.9	7967.6	7361.5	6576.7	5680.4	4694.3	3711.3
50°	8558.7	8565.1	8543.7	8454.8	8214.9	7772.7	7172.0	6381.8	5463.1	4480.1	3471.4
52.5°	8236.4	8238.5	8228.9	8152.8	7936.5	7514.7	6929.0	6143.0	5223.2	4225.3	3215.5
55°	7830.5	7839.1	7826.3	7754.5	7574.6	7193.4	6633.4	5857.1	4940.5	3957.6	2936.1
57.5°	7326.2	7335.8	7327.3	7270.5	7130.3	6803.7	6279.0	5525.2	4656.8	3650.3	2642.7
60°	6797.2	6810.1	6800.5	6748.0	6613.1	6352.9	5874.2	5149.3	4293.8	3321.5	2340.7
62.5°	6214.8	6225.5	6216.9	6204.0	6076.6	5850.7	5438.4	4738.2	3922.2	2982.1	2033.4
65°	5447.0	5462.0	5432.0	5487.7	5465.2	5241.4	4921.3	4297.0	3500.3	2593.4	1732.5
67.5°	4939.5	4943.7	4898.8	4848.4	4691.0	4650.4	4374.1	3821.6	3066.7	2226.1	1430.5
70°	4109.6	4029.3	4040.0	4107.5	4166.4	3939.4	3785.2	3303.3	2611.6	1841.7	1141.4
72.5°	3119.2	3051.7	3068.8	3108.4	3210.2	3314.0	3079.5	2780.8	2149.0	1486.2	854.5
75°	2196.1	2127.6	2148.0	2181.2	2259.3	2354.6	2414.6	2158.7	1658.6	1122.2	622.1
77.5°	1369.5	1349.2	1325.6	1347.0	1407.0	1491.6	1564.4	1551.5	1187.5	783.8	406.9
80°	651.0	632.8	621.0	638.2	676.7	777.4	840.6	840.6	730.3	479.7	231.3
82.5°	119.9	116.7	115.6	130.6	147.8	232.4	306.2	341.6	330.9	221.6	95.3
85°	55.7	52.5	53.5	54.6	55.7	62.1	65.3	78.2	92.1	61.0	31.1
87.5°	19.3	20.3	20.3	22.5	21.4	23.6	24.6	26.8	24.6	19.3	16.1
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	5352.8	5352.8	5352.8	5352.8	5352.8	5352.8	5352.8	5352.8	5352.8	5352.8	5352.8
2.5°	5347.4	5317.4	5260.7	5200.7	5147.2	5088.3	5050.8	5030.5	5005.9	5010.1	4996.2
5°	5363.5	5301.4	5191.1	5080.8	4983.4	4884.9	4816.3	4769.2	4729.6	4726.4	4713.5
7.5°	5356.0	5262.8	5099.0	4940.5	4799.2	4658.9	4559.3	4491.9	4433.0	4422.3	4410.5
10°	5318.5	5200.7	4985.5	4773.5	4594.7	4416.9	4289.5	4198.5	4123.5	4105.3	4088.2
12.5°	5274.6	5133.3	4865.6	4610.7	4397.7	4200.6	4037.9	3922.2	3836.6	3794.8	3790.5
15°	5227.5	5057.2	4737.1	4448.0	4191.0	3975.8	3791.6	3656.7	3555.0	3506.8	3499.3
17.5°	5147.2	4948.0	4584.0	4253.1	3964.0	3726.3	3520.7	3369.7	3254.1	3200.5	3188.8
20°	5032.6	4812.0	4404.1	4033.6	3714.5	3450.0	3230.5	3067.8	2941.4	2876.1	2861.1
22.5°	4918.0	4673.9	4225.3	3818.4	3468.2	3178.0	2937.1	2762.6	2626.6	2554.9	2540.9
25°	4813.1	4550.8	4052.9	3612.8	3230.5	2912.5	2649.1	2446.7	2318.2	2240.1	2224.0
27.5°	4697.5	4411.6	3873.0	3399.7	2989.6	2644.8	2360.0	2143.7	2005.6	1921.0	1934.9
30°	4559.3	4249.9	3674.9	3157.7	2730.5	2366.4	2063.4	1837.4	1694.0	1601.9	1615.8
32.5°	4401.9	4073.2	3462.9	2920.0	2476.7	2082.6	1777.5	1536.6	1388.8	1304.2	1302.1
35°	4238.1	3889.0	3239.1	2683.4	2216.5	1802.1	1483.0	1245.3	1069.7	995.8	990.5
37.5°	4063.6	3696.3	3034.6	2443.5	1960.6	1532.3	1207.8	947.6	784.9	694.9	688.5
39°	3956.5	3581.7	2900.7	2295.7	1805.3	1371.7	1041.9	778.4	612.5	530.0	525.7
40°	3880.5	3502.5	2808.6	2198.3	1702.5	1267.8	930.5	666.0	509.7	432.6	427.2
42.5°	3692.0	3292.6	2578.4	1952.0	1446.6	1012.9	664.9	424.0	325.5	297.7	295.5
45°	3469.3	3062.4	2327.9	1713.2	1197.1	759.2	430.4	291.2	252.7	238.8	236.6
47.5°	3239.1	2823.6	2078.4	1473.4	961.6	525.7	285.9	232.4	208.8	200.2	199.2
50°	2992.8	2574.1	1852.4	1238.9	731.3	333.0	224.9	191.7	177.7	172.4	171.3
52.5°	2746.5	2318.2	1602.9	1001.2	512.9	236.6	186.3	163.8	155.3	152.0	151.0
55°	2460.6	2060.2	1359.9	791.3	328.7	190.6	156.3	142.4	137.1	131.7	131.7
57.5°	2198.3	1798.9	1133.9	584.6	218.4	156.3	133.8	124.2	117.8	113.5	112.4
60°	1917.7	1538.7	912.3	397.3	170.3	130.6	116.7	109.2	102.8	98.5	97.4
62.5°	1636.1	1280.6	705.6	238.8	136.0	110.3	102.8	95.3	89.9	85.7	85.7
65°	1362.0	1037.6	515.0	157.4	110.3	94.2	87.8	82.4	78.2	75.0	75.0
67.5°	1095.4	799.9	349.1	119.9	88.9	80.3	76.0	71.7	67.5	65.3	65.3
70°	844.8	595.3	209.9	89.9	72.8	67.5	65.3	61.0	58.9	55.7	55.7
72.5°	617.8	413.3	114.6	69.6	58.9	55.7	54.6	51.4	49.3	47.1	47.1
75°	433.7	262.3	71.7	53.5	46.0	45.0	45.0	42.8	40.7	38.5	38.5
77.5°	268.8	145.6	49.3	38.5	35.3	35.3	35.3	33.2	31.1	30.0	28.9
80°	143.5	69.6	33.2	27.8	25.7	25.7	25.7	24.6	22.5	21.4	20.3
82.5°	60.0	32.1	21.4	18.2	16.1	17.1	17.1	15.0	12.8	10.7	10.7
85°	22.5	18.2	15.0	12.8	11.8	10.7	9.6	7.5	5.4	4.3	4.3
87.5°	13.9	12.8	11.8	10.7	9.6	7.5	6.4	4.3	2.1	1.1	0.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)